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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/518,646	12/20/2004	Shoko Suyama	263476US0PCT	5062	
22850	7590 07/31/2006		EXAM	EXAMINER	
C. IRVIN MCCLELLAND			GROUP,	GROUP, KARL E	
•	OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 940 DUKE STREET		ART UNIT	PAPER NUMBER	
ALEXANDRIA, VA 22314			1755		
			DATE MAILED: 07/31/2000	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/518,646	SUYAMA ET AL.			
		Examiner	Art Unit			
		Karl E. Group	1755			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to con	nmunication(s) filed on 22 Ju	une 2006				
2a) This action is FINA						
<u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	·					
4)⊠ Claim(s) <i>1-22</i> is/ar	⊠ Claim(s) <u>1-22</u> is/are pending in the application.					
	4a) Of the above claim(s) <u>8-22</u> is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
	5)⊠ Claim(s) <u>1-7</u> is/are rejected.					
7) Claim(s) is/s	☐ Claim(s) is/are objected to.					
8) Claim(s) are	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 7-21-05,6-8-05, 2-17-05 6) Other:						

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Election/Restrictions

1. Applicant's election with traverse of Group I in the reply filed on 6-22-06 is acknowledged. The traversal is on the ground(s) that the examiner has not satisfied the "special technical features" requirement of PCT Rule 13.2. This is not found persuasive because each of the claimed groups do not have the property of the silicon carbide matrix in common.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-7 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Weaver et al (4,019,913).

Weaver et al teach a composite silicon carbide body formed from a mixture of silicon carbide particles of less than 10 microns and colloidal carbon (submicron carbon), see column 3, lines 32-43. The formed body is subjected to molten silicon that reacts with the graphite to form a silicon carbide phase in situ, column 4, lines 1-3.

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Although the grain sizes of the final ar5ticle are not disclosed the particle sizes and process of making are not unlike that claimed therefor the claimed grain sizes would be inherent of the composite taught by Weaver et al. The silicon carbide phases and bending strengths also would be formed by the process of Weaver et al absent tangible evidence to the contrary.

It is well settled that when a claimed composition appears to be substantially the same as a composition disclosed in the prior art, the burden is properly upon the applicant to prove by way of tangible evidence that the prior art composition does not necessarily possess characteristics attributed to the CLAIMED composition. In re Spada, 911 F.2d 705, 15 USPQ2d 1655 (Fed. Circ. 1990); In re Fitzgerald, 619 F.2d 67, 205 USPQ 594 (CCPA 1980); In re Swinehart, 439 F.2d 2109, 169 USPQ 226 (CCPA 1971).

5. Claims 1-7 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Kojima et al (5,589,116).

Kojima et al teach a silicon carbide composite formed from silicon carbide having a particle size of preferable .7-10 microns (column 8, lines 56-60) and fine particles of carbon of 1 micron and less (column 9, lines 35-40). The silicon carbide is beta silicon carbide (column 11, line 44). A body is formed from the mixture and infiltrated with molten silicon where the silicon reacts with the free carbon to form silicon carbide (column 9, lines 55-58). The silicon phase comprises 0-40 wt% of the composite.

It is well settled that when a claimed composition appears to be substantially the same as a composition disclosed in the prior art, the burden is properly upon the applicant to prove by way of tangible evidence that the prior art composition does not necessarily possess characteristics attributed to the CLAIMED composition. In re Spada, 911 F.2d 705, 15 USPQ2d 1655 (Fed. Circ. 1990); In re Fitzgerald, 619 F.2d 67, 205 USPQ 594 (CCPA 1980); In re Swinehart, 439 F.2d 2109, 169 USPQ 226 (CCPA 1971).

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Claim Rejections - 35 USC § 112

6. Claims 1 and 4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, "the interstices" lacks antecedent basis.

Claim 4, "the intergranular area" lacks antecedent basis.

Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl E. Group whose telephone number is 571-272-1368. The examiner can normally be reached on M-F (6:30-4:00) First Friday Off. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Karl E Group/ Primary Examiner Art Unit 1755

Keg 7-25-06